BRUHATH BANGALORE MAHANAGARA PALIKE

Yelahanka Division

Work Slip: As per Std Tender Documents

Name of Work: **Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division**

Estimate Amount:- **1,00,00,000/-**
Name of Contractor:- **Sri Sridhar. Y.R**
Approved amount:- **1,01,81,828/-**
Tender premium:- **4.5% Above**

Sl. No.	Description of Work	Unit	Qty as per Quoted Rate			Total Qty Executed	Qty. as per Anticipated upto 125%			Qty. as per Anticipated above 125%			Total Amount	excess amount	Savings amount	Remark
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount				
1	2	3	4	5	6	10	11	12	13	14	15	16	17	18	19	20
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143). 8km lead	Cum	282.25	225.38	63614.00	292.55	292.55	225.38	65934.00	0.00	225.38	0.00	65934.00	2320.00	0.00	
9	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications	Cum	202.17	5676.19	1147556.00	223.28	223.28	5676.19	1267373.00	0.00	5676.19	0.00	1267373.00	119817.00	0.00	
10	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications	Cum	82.32	7401.79	609316.00	93.08	93.08	7401.79	688978.00	0.00	7401.79	0.00	688978.00	79662.00	0.00	
11	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification	Tn	4.94	69840.96	344959.00	5.58	5.58	69840.96	390059.00	0.00	69840.96	0.00	390059.00	45100.00	0.00	
12	Providing and Fixing pre cast covering Slab 100mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete As per Engineer incharge (Data Rate)	Sqm	260.25	2446.61	636731.00	265.95	265.95 26532	2446.61	650676.00 649134.56	0.00	2446.61	0.00	650676.00	13945.00	0.00	
24	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. (Loading and unloading with 8km lead= (I No-18.47,P No-140,KPWD SR 2018-19)	Cum	168.20	1019.07	171408.00	392.25	210.25	1019.07	214260.00	182.00	1019.07	185474.00	399734.00	228326.00	0.00	

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Assistant Executive Engineer

Sl. No.	Description of Work	Unit	Qty as per Quoted Rate			Total Qty Executed	Qty. as per Anticipated upto 125%			Qty. as per Anticipated above 125%			Total Amount	excess amount	Savings amount	Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount				
1	2	3	4	5	6	10	11	12	13	14	15	16	17	18	19	20
25	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound.	Cum	159.90	5455.35	872311.00	316.05	199.88	5455.35	1090389.00	116.17	5455.35	633754.00	1724143.00	851832.00	0.00	
	Grand total													1341002.00	0.00	

Note: Percentage of Workslip over the sanctioned Estimate=Excess amount over the approved amount/ Approved Amount x 100

9162417.00

Approved Amount =	9162417.00
Excess Amount =	1341002.00
Savings Amount =	2486476.00

$$\text{Percentage of Worslip} = \frac{\text{Excess Amount}}{\text{Approved Amount}} \times 100$$

Percentage of Worslip =	14.64 %

Contractor

Assistant Engineer

Assistant Executive Engineer

Executive Engineer

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BRUHATH BANGALORE MAHANAGARA PALIKE

Yelahanka Division

Comparitive Statement

Name of Work: Improvements to roads and Drains at Viswanagara in ward no-03 of Yelahanka Satellite Town Sub Division

Estimate Amount:- 1,00,00,000/-

Name of Contractor:- Sri Sridhar. Y.R

Approved amount:- 1,01,81,828/-

Tender premium:- 4.5% Above

Sl. No.	Description of Work	Unit	Qty as per Schedule8			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
1	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
1	KSRBB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1. P No-143). 8km lead	Cum	282.25	225.38	63614.00	292.55	292.55	225.38	65934.00	0.00	225.38	0.00	292.55	65934.00	2320.00	0.00	
2	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. a) 40mm Jelly	cum	0.62	1990.16	1234.00	0.00	0.00	1990.16	0.00	0.00	1990.16	0.00	0.00	0.00	0.00	1234.00	
3	b) 20mm Jelly	cum	0.62	1990.16	1234.00	0.00	0.00	1990.16	0.00	0.00	1990.16	0.00	0.00	0.00	0.00	1234.00	
4	c) Coarse sand.	cum	0.47	2775.33	1291.00	0.00	0.00	2775.33	0.00	0.00	2775.33	0.00	0.00	0.00	0.00	1291.00	
5	d) Fine Sand	cum	0.31	2775.33	861.00	0.00	0.00	2775.33	0.00	0.00	2775.33	0.00	0.00	0.00	0.00	861.00	
6	e) 12.5mm chips	cum	0.47	1990.16	926.00	0.00	0.00	1990.16	0.00	0.00	1990.16	0.00	0.00	0.00	0.00	926.00	
7	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete	Rml	9.00	11329.89	101970.00	0.00	0.00	11329.89	0.00	0.00	11329.89	0.00	0.00	0.00	0.00	101970.00	
8	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge	Sqm	1.55	74.36	116.00	0.00	0.00	74.36	0.00	0.00	74.36	0.00	0.00	0.00	0.00	116.00	
9	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications	Cum	202.17	5676.19	1147556.00	223.28	223.28	5676.19	1267373.00	0.00	5676.19	0.00	223.28	1267373.00	119817.00	0.00	
10	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications	Cum	82.32	7401.79	609316.00	93.08	93.08	7401.79	688978.00	0.00	7401.79	0.00	93.08	688978.00	79662.00	0.00	

No.	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
1	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
11	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.	Tn	4.94	69840.96	344959.00	5.58	5.58	69840.96	390059.00	0.00	69840.96	0.00	5.58	390059.00	45100.00	0.00	
12	Providing and Fixing pre cast covering Slab 100mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	Sqm	260.25	2446.61	636731.00	265.95	265.32	2446.61	650676.00	0.00	2446.61	0.00	265.95	650676.00	13945.00	0.00	
						265.32	265.32		649134.56					649134.56	12403.56		
13	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.	Sqm	4.32	5672.10	24504.00	0.00	0.00	5672.10	0.00	0.00	5672.10	0.00	0.00	0.00	0.00	24504.00	
14	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 1km lead= (I No-19.14,P No-143,KPWD SR 2018-19)	Cum	754.89	66.94	50533.00	316.80	316.80	66.94	21207.00	0.00	66.94	0.00	316.80	21207.00	0.00	29326.00	
15	KSRRB 300-46. Scarifying by mechanical means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.(P No-146,I No-19.52)	Cum	468.00	43.28	20256.00	0.00	0.00	43.28	0.00	0.00	43.28	0.00	0.00	0.00	0.00	20256.00	
16	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications	Cum	429.03	2088.48	896021.00	237.60	237.60	2088.48	496223.00	0.00	2088.48	0.00	237.60	496223.00	0.00	399798.00	
17	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.	Cum	628.22	2095.14	1316214.00	364.32	364.32	2095.14	763302.00	0.00	2095.14	0.00	364.32	763302.00	0.00	552912.00	
18	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.	Sqm	2731.40	31.07	84865.00	1584.00	1584.00	31.07	49215.00	0.00	31.07	0.00	1584.00	49215.00	0.00	35650.00	
19	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications.(P.No-158,I No-21.2), issue rate dated 01-07-2020.	Sqm	2214.20	5.55	12289.00	1221.00	1221.00	5.55	6777.00	0.00	5.55	0.00	1221.00	6777.00	0.00	5512.00	
20	KSRRB 500-7 Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications	Sqm	4945.60	13.32	65876.00	2805.00	2805.00	13.32	37363.00	0.00	13.32	0.00	2805.00	37363.00	0.00	28513.00	

	Description of Work	Unit	Qty as per Schedule8			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Remarks
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
	2	3	7	8	9	10	11	12	13	14	15	16	10	17	18	19	20
	SRRB M500-17 Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen	Cum	164.25	6708.22	1101809.00	79.20	79.20	6708.22	531292.00	0.00	6708.22	0.00	79.20	531292.00	0.00	570517.00	
2	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)	Cum	197.82	7891.18	1561065.00	112.20	112.20	7891.18	885391.00	0.00	7891.18	0.00	112.20	885391.00	0.00	675674.00	
23	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.	Sqm	158.50	476.07	75458.00	82.50	82.50	476.07	39276.00	0.00	476.07	0.00	82.50	39276.00	0.00	36182.00	
24	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. Loading and unloading with 8km lead= (I No 18.47.P No-140.KPWD SR 2018-19)	Cum	168.20	1019.07	171408.00	392.25	210.25	1019.07	214260.00	182.00	1019.07	185474.00	392.25	399734.00	228326.00	0.00	
25	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastiizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound.	Cum	159.90	5455.35	872311.00	316.05	199.88	5455.35	1090389.00	116.17	5455.35	633754.00	316.05	1724143.00	851832.00	0.00	
					9162417.00				7197715.00			819228.00		8016943.00	1341002.00	2486476.00	
	FIRL				9162317				7196175.50						1339450.50		

	Description of Work	Unit	Qty as per ScheduleB			Total Qty Executed	Qty. as per Actuals upto 125%			Qty. as per Actuals above 125%			Total		Difference		Rem
			Qty	Rates	Amount		Qty.	Rates	Amount	Qty.	Rates	Amount	Qty	Amount	Excess	Savings	
	2	3	7	8	9	10	11	12	13	14	15	16	16	17	18	19	20
E1	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications.	Cum								147.48	5408.12	797605.76	147.48	797605.76	797605.76		
E2	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	Nos								766.00	432.48	331279.68	766.00	331279.68	331279.68		
E3	KSRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.	Sqm								137.88	84.80	11692.22	137.88	11692.22	11692.22		
	Sub Total											9155940		9157520.67	2481579.67	2486476.00	
	Miscellaneous & Rounding off											6480.96		4905.25	4905.25		
	Total				9162417.00									9162417.00	2486484.91	2486476.00	

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Contractor

Assistant Engineer

Asst. Executive Engineer

Executive Engineer

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